Safety

People * Readiness * Quality of Service





Our Current Situation

FY01 was:

LOWEST EVER aviation Class-A flight mishap rate

- USN/USMC and USMC
- 24% reduction (USN/USMC): FY92-96 vs.

FY97-01

LOWEST EVER private motor vehicle (PMV) fatality rate

- USN/USMC and USMC
- 12% reduction (USN/USMC): FY92-96 vs.

FY97-01

LOWEST EVER shore/recreation fatality rate

- USMC
- 33% reduction (USN/USMC): FY92-96 vs.

FY97-01

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Mishap Costs



Direct Cost

\$4 Billion and 970 Lives



- Loss of Manpower
- Delay in Doing Business
- Corporate Reputation
- Investigation Costs
- Litigation





Naval Safety Center Services



Mission

Train and motivate
Sailors and
Marines
to prevent mishaps
and save lives

Vision

The most combat-ready and safest Navy and Marine Corps.

Responsibility



Collect
Analyze
Disseminat



ON THE ROAD

- Culture workshops
- Unit surveys
- ORM unit training
- Mishap investigations
- USMC MTT seminars
- PCO briefings

AWARENESS

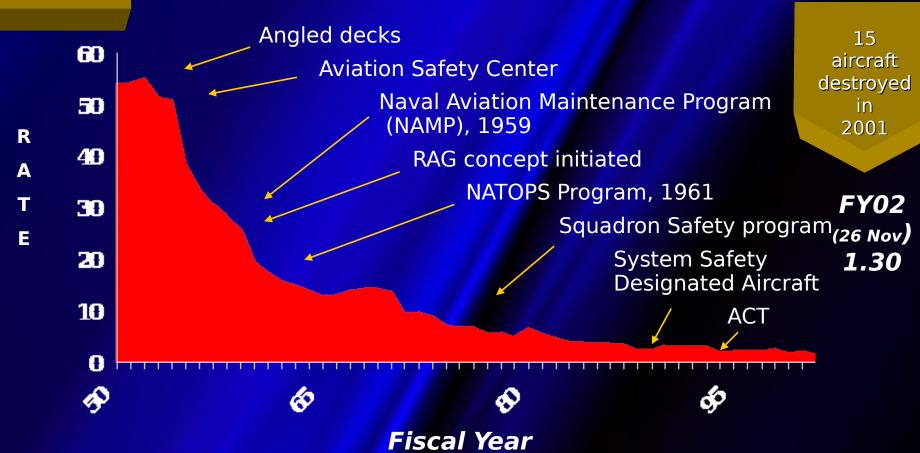
- 26 magazines printed (473,000 copies)
- Interactive CD's
- Safety Center web page
- Acquisition process in-roads
- Safety advisories
- Customer information requests (3,600+ database queries per month)

Naval Aviation Mishap Rate



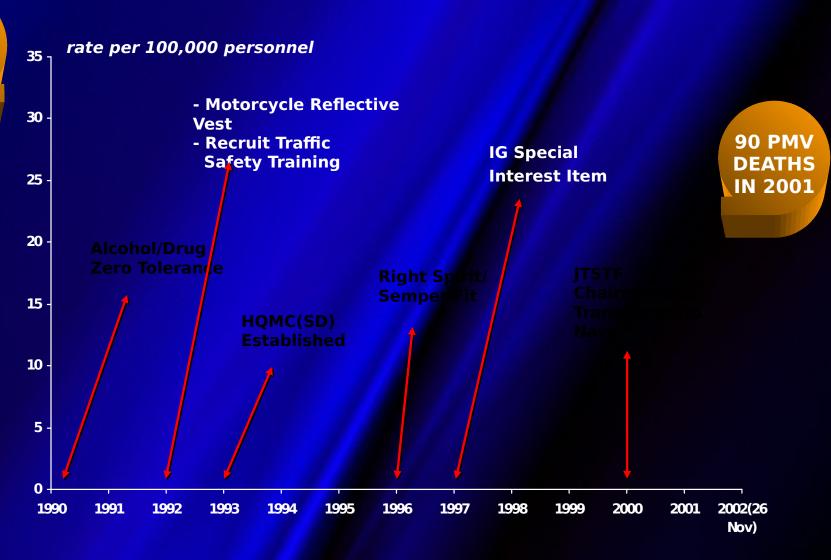
FY50-02

FY01 1.23



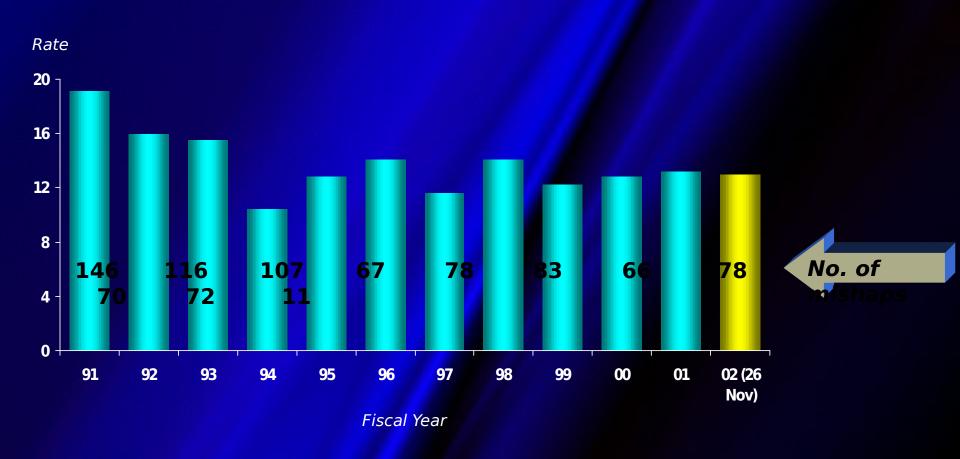
Navy/Marine PMV Fatality Rate

229 PMV DEATHS IN 1990



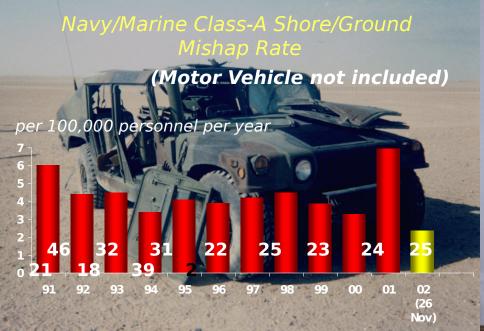
Navy/Marine Total Class-A Operational Mishap Rate

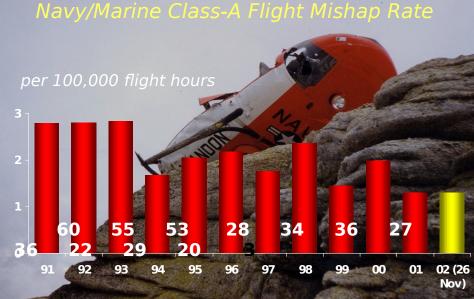
FY01: 13.17 (72 mishaps) was 6th lowest



Navy/Marine Class-A Mishap Rates







Navy/Marine Fatality Rates





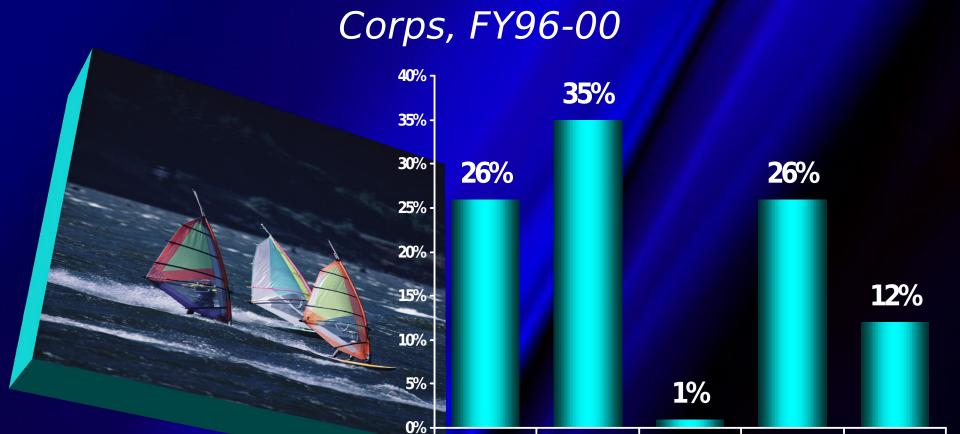
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How People Died in Mishaps Navy and Marine Corps, FY97-01



How People Were Injured in Mishaps

Navy and Marine



Traffic

Recreation

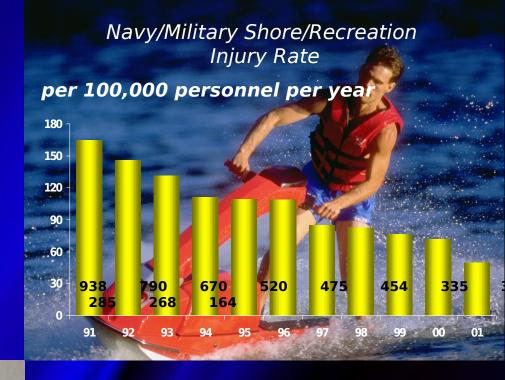
8,900 Injuries

Aviation

Shore/Ground

Afbat

Navy/Military Injury Rates





injury = five or more
lost workdays or
permanent disability

Findings INVESTIGATIONS:

- Poor airmanship/seamanship
- Skill-based error rate
- Poor crew coordination
- Poor headwork

SURVEYS:

- Inadequate resources
- Command over-committed
- Manning/unavailable experience
- Cutting corners/PMS
- Poor communication
- Technical publications

Human Error and Challenges

Human Error in Operational Mishaps FY96-00

Aviation = 77%

Afloat = 86%

Shore = 96%

- Reluctance to say "No"
- Doing more with less/same
- "The way we've always do

it"

- Ego
- Cost of doing business

Comparing Culture



GENERATIVE

safety is how we do business around here

Wisdom/Knowledg e, Not Just Data

PROACTIVE

we work on the problems that we still find



CALCULATIVE

we have systems in place to manage all hazards



REACTIVE

safety is important, we do a lot every time we have an accident

PATHOLOGICAL

who cares as long as we're not caught

Trust

Recommended Solutions

- Leadership
- Culture
- Leveraging technology
- **Resources & acquisition**
- Mentoring/training
- Culture standards
- Manning
- **Checks & balances**



ORM Works

- Nimitz Battlegroup
- RimPAC 2000
- Shiphandling Mishaps
- Marine Air Wings
- Decline in Human-Error
 Class A's

Leadership is Responding

VADM John B. Nathman COMNAVAIRFOR/COMNAVAIRFAC:

"Commanders have a fundamental responsibility to protect our personnel and material resources and to accept only that level of risk necessary to accomplish the mission."

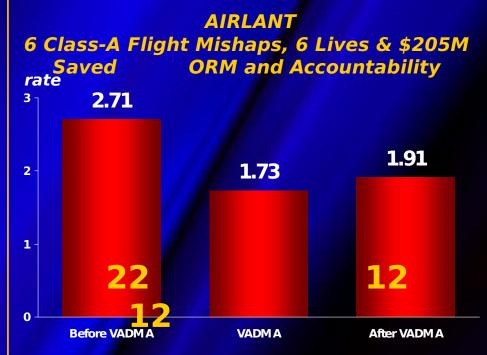
"It's up to us to ensure that operational risk management is an integral part of our daily planning and execution routines."

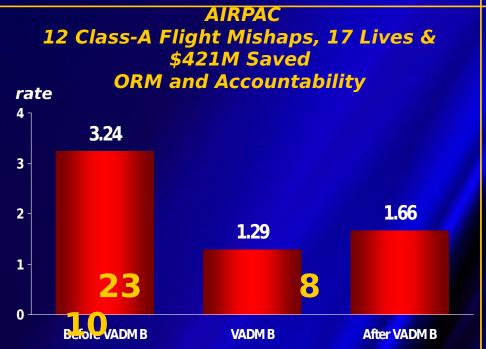
"ORM alignment for the naval aviation force is key to our continued operational success."

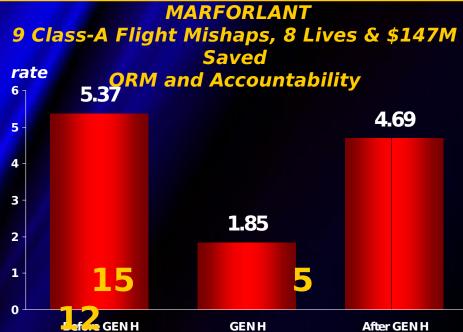
ADM Robert J. Natter CINCLANTFLT:

"You influence more people by the example you set than by all the words you could ever say."

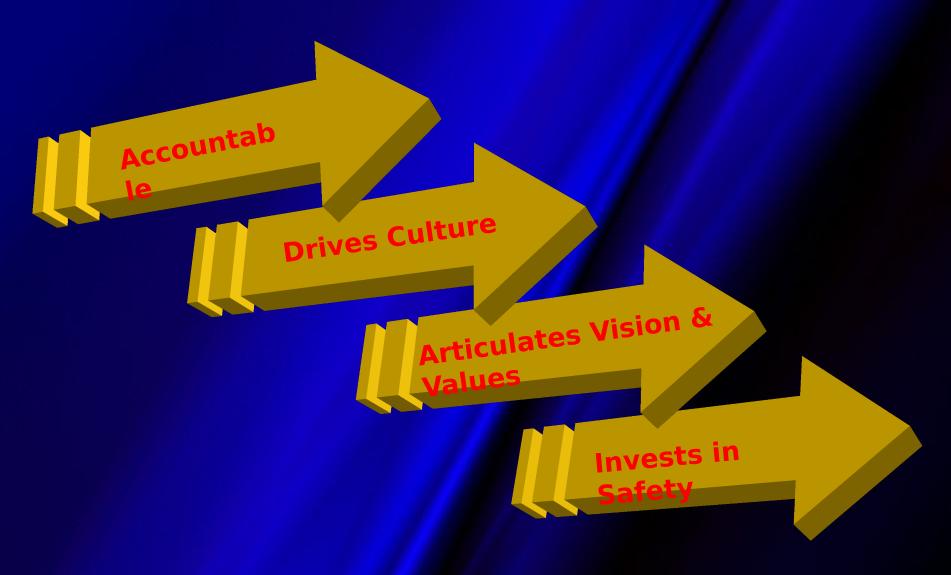
Leadership Involvement







Leadership Makes the Difference



In Summary

SECNAV Safety Brief 28 November 2001

RDML David Architzel, USN Commander, Naval Safety Center Back-up Slide

Marine Corps Order for Conducting High-Risk Training





